

Mission Applications Branch Code 583

Branch Technical Status Report
January 29, 2004



Presentations

- ISD Contingency Planning Awareness
Art Hughes, ISD Computer Security Official
- MAB Project Status Overview
Henry Murray



MAB Project Status

Henry Murray



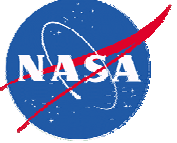
Project Summary

<u>Project</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Last Status</u>	<u>CS</u>	<u>SSC</u>	<u>Status</u>
<i>ESDIS</i>							
EOS Aura FDS	G	G	G	April 2003	1.0	0.5	Supporting Mission Readiness Testing
EOS Aura MMS	G	G	G	-----	0.6	0.5	Supporting Mission Readiness Testing
ESMO	G	G	G	-----	0.5	0.0	CCS Release 1 delivered for acceptance testing
ASSET	G	G	G	September 2002	0.2	2.0	Sustaining engineering support funded thru 12/04
<i>Swift</i>							
BAT FSW Test	G	G	G	-----	1.0	0.0	Supported testing of Build 4.1. Build 4.1 delivered on 12/21/04
SDP Dev	G	G	G	-----	0.7	0.0	Developing Image Transformation software
BAT I&T	G	G	G	June 2003	1.0	0.0	Supported Thermal Vacuum testing of PCB
<i>HST</i>							
Tools Dev	G	G	G	-----	1.0	0.0	HST SAC/FOT Tracking Request System delivered for acceptance test
Mgmt/Ops	G	G	G	-----	1.6	0.0	
SMGT/STScI	G	G	G	-----	0.8	0.0	Lisa Mazzuca invited to be a member of ST Imaging Spectrograph Anomaly Resolution Board



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<i>Code 600</i>							
LEP	G	G	G	August 2001	1.0	0.0	Supporting PI check-out of LZP software
SPDF	G	G	G	July 2002	2.0	0.0	Submitted article describing SPDF Web Services and TIPSOD to NASA Tech Brief Journal
Stellar Imager	G	G	G	May 2002	0.2	0.0	Supporting FIT development
<i>Code 900</i>							
ESMF	G	G	G	December 2002	0.5	0.0	Restructuring GISS climate models
<i>Flight Dynamics</i>							
GMAT	G	G	G	-----	4.2	0.0	Build 1 delivered 11/14/03
ACT	G	G	G	-----	0.1	0.0	Waiting FD customer analysis
TRMM Automation	G	G	G	-----	0.2	0.0	Design review for new front-end 1/23/04
FFTB	G	G	G	-----	0.2	0.0	Modifying control algorithms
PFFIAT	G	G	G	-----	1.0	0.0	Release 3.2 9/03
TrajOpt	G	G	G	-----	0.1	0.0	Final release delivered; waiting on customer feedback for enhancements
GTDS UI	G	G	G	-----	1.2	0.0	Development of Release 2; generation of User's Guide



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<i>Mission Services</i>							
SWSI	G	G	G	August 2001	0.5	0.0	ORR 7/10/03; Release 3.1 operational 7/28/03
McMurdo GS Upgrade	G	G	G	-----	0.5	0.0	T. Sardella currently on TDY in Antarctica
<i>NASA SW Initiative</i>							
CMMI/EPG	G	G	G	August 2003	0.6	2.0	Revising Center Process Improvement Plan; ISD CCB Process submitted to Branch Heads for review
Metrics	G	G	G	March 2002	0.2	0.5	Presented Metrics Group progress to NASA SWG at Sunnyvale, CA
SWG	G	G	G	-----	0.3	0.5	Sharing process improvement and metrics assets
<i>Technology</i>							
AMPS	G	G	Y	-----	0.7	3.5	Waiting for MOMS task to be subcontracted to CSC
Adaptive Sensor Fleet		G	G	-----	0.5	0.0	Supporting reqts/design
Roadmap	Y	Y	Y	-----	0.0	0.0	Preempted by GMSEC support
AFSRGT	Y	Y	Y	-----	0.7	0.0	



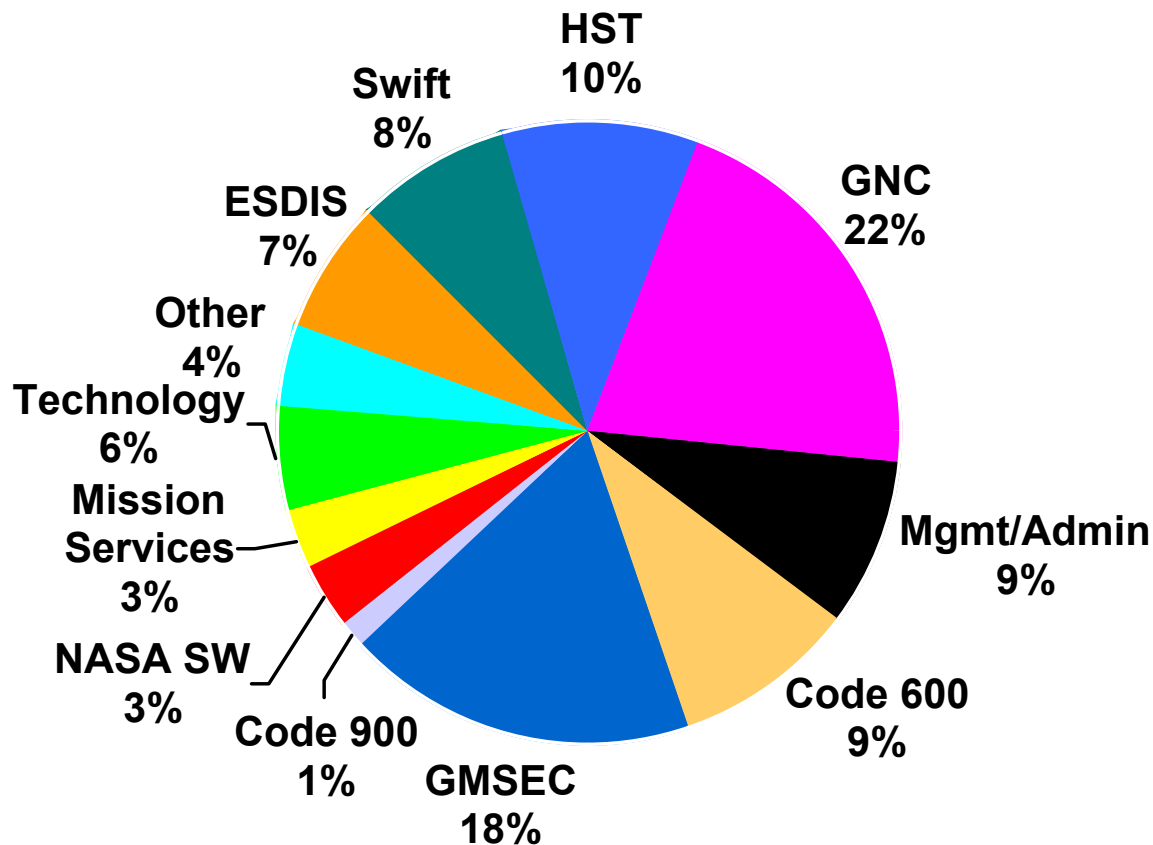
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<i>GMSEC</i>							
Planning & Scheduling	G	G	Y	-----	1.7	0.5	Waiting for MOMS task to be subcontracted to CSC; performing STK Scheduler evaluation
Architecture/Labs	G	G	G	-----	1.5	0.0	Six demonstrations held 12/03
SIMSS	G	G	Y	-----	1.0	0.5	Waiting for MOMS task to be subcontracted to CSC
Trend/Event Analysis	G	G	G	-----	0.7	4.0	Wind/Polar ITPS Reqts/Design Review 1/29/04; ITPS SOHO Release 2 scheduled for 2/04
FD Automation	G	G	G	-----	0.7	0.3	AutoFDS operational for TRMM in 12/03; GMSEC task initiated in 1/04
MADECC	Y	Y	G	-----	0.1	0.1	GMSEC task initiated 1/04
Middleware Evaluation	G	G	G	-----	0.5	0.3	GMSEC task initiated 1/04



Staffing Overview

Project Breakout



CS Support Levels

ESDIS	2.3	
Code 600	3.2	
HST	3.4	
GNC	7.0	
Mgmt/Admin	2.9	
Swift	2.8	
GMSEC	6.2	
Code 900	0.5	
NASA SW	1.1	
Mission Services	1.0	
Technology	1.9	
Other	1.4	
Total	33.7	--



Acronyms

ACCS	Automated CCS CM System	GTDS	Goddard Trajectory Determination System
ACT	Attitude Contingency Tool	HST	Hubble Space Telescope
AFSRGT	Automated Flight Software Requirements Generation Tool	ICD	Interface Control Document
AMPS	Automated Mission Planning System	I&T	integration and test
ASSET	Advanced SSR Scheduling Tool	LEP	Laboratory for Extraterrestrial Physics (696)
BAT	Burst Alert Telescope	MADECC	Multiple Autonomous Discrete Event Controllers for Constellations
CCA	Common Component Architecture	MMS	Mission Management System
CCS	Control Center System	PFFIAT	Precision Formation Flying Integrated Analysis Tool
CDA	coordinated data analysis	PSS	portable spacecraft simulator
CMMI	Capability Maturity Model - Integrated	P&S	planning and scheduling
DR	discrepancy report	SDP	science data processing
DSE	Distributed Synthesis Environment	SPDF	Space Physics Data Facility (632)
DSS	Distributed Space Systems	SIMSS	Scalable Integrated Multi-Mission Simulation Suite
EPG	Engineering Process Group	SMGT	Servicing Mission Ground Testing
ESDIS	Earth Science Data Information System	SMOV	Servicing Mission Observatory
ESMF	Earth System Modeling Framework (931)	SNAS	Space Network Access System
ESMO	Earth Science Mission Operations	SPLAT	SSR Playback Automation Tool
FDS	Flight Dynamics System	SSC	Swift Science Center
FFTB	Formation Flying Testbed	SSR	solid state recorder
FIT	Fizeau Interferometer Testbed	SWG	Software Working Group
FSW	flight software	SWSI	Space Network Web Services Interface
GISS	Goddard Institute for Space Studies		
GMAT	Goddard Mission Analysis Tool		
GMSEC	GSFC Mission Services Evolution Center		